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(71)Applicant : JAPAN SYNTHETIC RUBBER CO LTD

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(54) CROSSLINKED HOLLOW POLYMER PIGMENT AND COATING COMPOSITION USING THE PIGMENT

(57)Abstract:

PURPOSE: To provide the subject pigment composed of a hollow polymer particle having an inner layer consisting of a specified crosslinked polymer and an outer layer consisting of a non-crosslinked polymer, suitable for a coating material for paper, woodworking products, etc., and capable of providing a paper for paper coating excellent in whiteness, printability and balance.

CONSTITUTION: The subject hollow polymer particle pigment consisting of a crosslinked hollow polymer



particle having two or more polymer layers and having 0.15-20 μ m average particle diameter, 0.2-0.8 ratio of hollow diameter to particle diameter of the particle, \geq 85wt.% ratio of toluene-insoluble portion and $<$ 0.2g/10min. melt flow rate at 180°C and 10kgf/cm² where the inner layer of the above-mentioned two polymer layers is consisting of a crosslinked polymer composed of (A) a polymerization unit of formula I (n is 2 or 3), (B) another polymerization unit of formula II (Y is phenyl, etc.) and (C) the other polymerization unit of formula III. And the outer layer of the above-mentioned particle is consisting of a crosslinked polymer composed of the component (A) as the essential component and the components (B) and (C) as necessary.